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APPLICATION NO.	PLICATION NO. FILING DATE FIRST		ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/483,725	01/14/2000	Robert Louis Cupo	Cupo-19-3-5	8757	
7590 10/03/2003			EXAMINER		
Stephen J. Weed Esquire			CORRIELUS, JEAN B		
Synnestvedt & I		ART UNIT	PAPER NUMBER		
1101 Market Street			2631		
Philadelphia, P.	A 19107-2950	DATE MAILED: 10/03/200	3 <i>4</i>		

Please find below and/or attached an Office communication concerning this application or proceeding.

. Office Action Summary		Applicati	on No.	Applicant(s)				
		09/483,7	25	CUPO ET AL.				
		Examine	Γ.	Art Unit				
		Jean B C		2631				
- The Period for Rep	MAILING DATE of this communi	cation appears on th	e cover sheet with the (correspondence add	fress			
A SHORTE THE MAILII - Extensions of after SIX (6) I - If the period f - If NO period f - Failure to rep - Any reply rec	ENED STATUTORY PERIOD FO NG DATE OF THIS COMMUNIO If time may be available under the provisions of MONTHS from the mailing date of this commit for reply specified above is less than thirty (30 for reply is specified above, the maximum state of the committee of	CATION. of 37 CFR 1.136(a). In no exunication.)) days, a reply within the statutory period will apply and wwill, by statute, cause the ap	vent, however, may a reply be tin tutory minimum of thirty (30) day vill expire SIX (6) MONTHS from plication to become ABANDONE	nely filed ys will be considered timely the mailing date of this co. ED (35 U.S.C. § 133).	mmunication.			
	ponsive to communication(s) file	ed on 18 August 200	03.					
<u> </u>	•	2b) This action is						
,—	e this application is in condition	for allowance excep	ot for formal matters, p	rosecution as to the	e merits is			
clos Disposition of	ed in accordance with the pract Claims	ice under <i>Ex par</i> te 0	Quayle, 1935 C.D. 11,	453 O.G. 213.				
4)⊠ Claim	4) Claim(s) 1-19 is/are pending in the application.							
4a) O	4a) Of the above claim(s) is/are withdrawn from consideration.							
5)⊠ Clain	5)⊠ Claim(s) <u>1 and 3</u> is/are allowed.							
6)⊠ Clain	☑ Claim(s) <u>2,4-6,8-10,13-15,18 and 19</u> is/are rejected.							
7)⊠ Clain	☑ Claim(s) <u>7, 11, 12, 16, 17,</u> is/are objected to.							
8) Claim(s) are subject to restriction and/or election requirement.								
Application Pa	•							
9) The specification is objected to by the Examiner.								
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.								
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.								
If approved, corrected drawings are required in reply to this Office action.								
12) The oath or declaration is objected to by the Examiner. Priority under 35 U.S.C. §§ 119 and 120								
-		for foreign priority u	nder 35 II S.C. & 110/	a)_(d) or (f)				
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:								
,		documenta have he	on received					
1.∐	Certified copies of the priority			tion No				
_	2. Certified copies of the priority documents have been received in Application No							
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.								
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).								
a) ☐ The translation of the foreign language provisional application has been received. 15)☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.								
Attachment(s)								
1) Notice of Re 2) Notice of Dr	eferences Cited (PTO-892) aftsperson's Patent Drawing Review (P Disclosure Statement(s) (PTO-1449) Pa			ry (PTO-413) Paper No(Patent Application (PT				

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DETAILED ACTION

Claim Objections

1. The indicated allowability of claims 5-6, 8-10, 13-15 18 and 19 is withdrawn in view of the newly discovered reference(s) to DERWENT PUBLICATION No. 1996-404860. Rejections based on the newly cited Publication follow.

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 2, 4, 5, 6, 8, 9, 10, 13-15, and 18-19 are rejected under 35 U.S.C. 103(a) as being unpatentable over applicant's admitted prior art fig. 5 in view of DERWENT PUBLICATION No. 1996-404860.

As per claims 5, 2, 4, 8, 13, and 18, applicant's fig. 5 teaches a method having the steps of encoding an analog signal by sampling digitizing and encoding segments of said analog signal and generating a plurality of variable length data frames corresponding to said segments, see applicant's disclosure page 1, lines 8-10; filling a fixed length master frame with said plurality of variable length frames a plurality of sync patterns, see fig. 5; modulating the fixed length master

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frame; and transmitting and receiving said modulated fixed frame over a channel see fig. 5 demodulating the modulated fixed length frame see line 14; the demodulated said fixed length master frame is inherently deformatted to remove the plurality of sync patterns shown in fig. 5 to derive said plurality of variable length data frames and the decoding the variable frames.

Applicant's admitted prior art further teaches the filling of any unused portion of the master frame by zeros rather than a random data pattern. However, as noted by applicant the use of random data is old and well established in the art see background of the invention page 3, lines 21-22. For instance Derwent Publication teaches such feature of the claim. Given that fact, it would have been obvious to one skill in the art at the time of the invention to modify fig. 5, by replacing the fixed data by random data in order to maximized system efficiency.

As per claims 6, 9, 14 as shown in fig 5 said fixed master frame is filled with said plurality of variable frames and with a sync signal preceding each variable frame.

As per claims 10, 15, and 19, the broadcasting receiver/transmitter is a digital audio broadcasting receiver/transmitter. See fig. 5.

Allowable Subject Matter

- 4. Claims 1 and 3 are allowed.
- 5. Claims 7, 11, 12, 16 and 17 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

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6. Any response to this action should be mailed to:

Commissioner of Patents and Trademarks

Washington, D.C. 20231

or faxed to:

(703) 872-9314

(for informal or draft communications, please label "PROPOSED" or "DRAFT")

Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal Drive, Arlington. VA., Sixth Floor (Receptionist).

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jean B. Corrielus whose telephone number is (703) 305-4023. The examiner can normally be reached on Monday-Thursday from 7:00 A.M. to 5:30 P.M.

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Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703) 305-3800.

Primary Examiner

lan B. Corrielus

TC-2600 9-27-03